

10/582338

AP20 Rec'd PCT/PTO 09 JUN 2006

PATENT

IN THE U.S. PATENT AND TRADEMARK OFFICE

Applicant(s): Toru IDE
Int'l Application No.: PCT/JP2004/013679
Application No.: NEW
Filed: June 9, 2006
For: ARTIFICIAL LIPID BILAYER MEMBRANE LIPID
SUBSTITUTION METHOD, ARTIFICIAL LIPID BILAYER
MEMBRANE OBTAINED BY USING LIPID
SUBSTITUTION METHOD, ARTIFICIAL LIPID BILAYER
MEMBRANE FORMATION DEVICE, AND ION
PERMEATION MEASURING DEVICE (as amended)

INFORMATION DISCLOSURE STATEMENT
(SUBMISSION CONCURRENT WITH THE
FILING OF A NEW PATENT APPLICATION)

Customer Service Window
Randolph Building
401 Dulany Street
Alexandria, VA 22314
Mail Stop PCT

June 9, 2006

Sir:

Pursuant to 37 C.F.R. §§ 1.97 and 1.98, applicant(s) hereby submit(s) an Information Disclosure Statement for consideration by the Examiner.

I. LIST OF PATENTS, PUBLICATIONS OR OTHER INFORMATION

The patents, publications, or other information submitted for consideration by the Office are listed on PTO-1449, attached hereto.

II. COPIES

☐ Submitted herewith is a legible copy of (i) each U.S. and foreign patent; (ii) each publication or that portion which caused it to be listed; and (iii) all other information or that portion which caused it to be listed.

☒ This application is a National Phase of a PCT application. Some or all of the documents listed on the PTO-1449 are not enclosed because they were cited in the International Search Report and copies should be forwarded from the International Search Authority. If copies are needed, please contact the undersigned.

☐ Because the present application is being filed after June 30, 2003, no copies of the U.S. patents or U.S. patent application publications which are listed on the attached Form 1449 are enclosed pursuant to the waiver of 37 C.F.R. § 1.98(a)(2)(i). Any foreign patent documents or non-patent literature listed on the attached Form 1449 are enclosed herewith.

III. CONCISE EXPLANATION OF THE RELEVANCE
(check at least one box)

a. ☒ **DOCUMENTS IN THE ENGLISH LANGUAGE**

Some of the attached patents, publications, or other information in the English language do not require a statement of relevancy.

b. ☒ **DOCUMENTS NOT IN THE ENGLISH LANGUAGE**

A concise explanation of the relevance of all patents, publications, or other information listed that is not in the English language is as follows:

Many of the documents have been discussed in the PCT Search Report, the PCT Preliminary Examination Report, and/or throughout the specification. The PCT Search Report and PCT Preliminary Examination Report indicate the degree of relevance found by the PCT Office, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

c. ☒ **ENGLISH LANGUAGE SEARCH REPORT**

An English language version of the search report or action that indicates the degree of relevance found by the foreign office is attached, thereby satisfying the requirement for a concise explanation. See MPEP 609(A)(3).

d. ☒ **OTHER**

The following additional information is provided for the Examiner's consideration.

Japanese Publication No. 2002-505007 corresponds to U.S. Patent 6,177,000. Japanese Publication No. 11-508043 corresponds to U.S. Patent 6,316,273. Japanese Publication No. 11-316210 corresponds to U.S. Patent 5,443,955.

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New PCT National Phase Application
Docket No. 12480-000181/US

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e. ☐ EQUIVALENCY DOCUMENTS

FEES

This Information Disclosure Statement is being filed concurrently with the filing of a new patent application; therefore, no fee is required.

If the Examiner has any questions concerning this IDS, he/she is requested to contact the undersigned. If it is determined that this IDS has been filed under the wrong rule, the PTO is requested to consider this IDS under the proper rule and charge the appropriate fee to Deposit Account No. 08-0750.

If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies, to charge payment or credit any overpayment to Deposit Account No. 08-0750 for any additional fees required under 37 C.F.R. § 1.16 or under § 1.17; particularly, extension of time fees.

Respectfully submitted,

HARNESS, DICKEY & PIERCE, P.L.C.

By: 
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Enclosures:

- ☒ Form PTO-1449(s)
- ☒ Documents
- ☒ International Search Report (PCT/ISA/210)

FORM HDP-1449 (Based on Form PTO-1449) PATENT AND TRADEMARK OFFICE INFORMATION DISCLOSURE CITATION (Use several sheets if necessary) Sheet 1 of 1	ATTORNEY DOCKET NO.		SERIAL NO.
	12480-000181/US		10/582338
	APPLICANT		
	Toru Ide AP20 Rec'd PCT/PTO 09 JUN 2006		
	FILING DATE		GROUP
June 9, 2006		Unknown	

U.S. PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Name	Class/ Subclass	(If appropriate) Filing Date
		6177000	01/23/2001	PETERSON		
		6316273	11/13/2001	KING		
		5443955	08/22/1995	CORNELL et al.		

FOREIGN PATENT DOCUMENTS						
Ref. Desig.	Examiner's Initials	Document Number	Date	Country	Class/ Subclass	Translation Yes No
JP		11-056389	03/02/1999	JAPAN		Abstract
JP		2003-194772	07/09/2003	JAPAN		Abstract
JP		2001-091494	04/06/2001	JAPAN		Abstract
JP		04-273029	09/29/1992	JAPAN		Abstract
JP		2002-505007	02/12/2002	JAPAN		US
JP		11-508043	07/13/1999	JAPAN		US
JP		11-316210	11/16/1999	JAPAN		Abstract

OTHER DOCUMENTS (including Author, Title, Date, Pertinent Pages, etc.)		
Ref. Desig.	Examiner's Initials	
		International Search Report (PCT/ISA/210)
		Toru Ide et al., Nippon Seirishi, Seirigaku Jikken Koza "Bunshi Seirigaku" Tan itsu Channel no Denki Kogakuteki Doji Keisoku. Vol. 65, No. 9, pp. 283-290 (09/01/2003).
		"An Artificial Lipid Bilayer Formed on an Agarose-Coated Glass for Simultaneous Electrical and Optical Measurement of Single Ion Channels". Toru Ide. Biochemical and Biophysical Research Communications Vol. 1, 265, No. 2, pp. 595-599 (1999).
		"Combined Spectroscopic and Electrical Recording Techniques in Membrane Research: Prospects for Single Channel Studies". A.G. Macdonald et al. Progress in Biophysics & Molecular Biology, Vol. 63, No. 1, pp. 1-29 (1995).
		"Heimen Rin Shishitsu Nijusomaku o Tsukatta Ion Channel no Sokutei". Toshiro Hamamoto. Cell Technology Vol. 7, No. 1, pp. 87-96 (1996).
		"Planar Bilayer Method for Studying Channel". New Patch Clamping Experiment Technique published by Yoshiokashoten pp. 208-215 (2001).
		"Development of an Experimental Apparatus for Simultaneous Observation of Optical and Electrical Signals from Single Ion Channels". Toru Ide et al. Single Mol. 3 (2002) 1, pp. 33-42 Wiley-VCH.

Examiner:	Date Considered:
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EXAMINER: Please initial if citation considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.